

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-074606

(43)Date of publication of application : 15.03.2002

(51)Int.CI.

G11B 5/02

G11B 5/31

G11B 5/39

G11B 11/10

(21)Application number : 2001-194639

(71)Applicant : INTERNATL BUSINESS MACH CORP <IBM>

(22)Date of filing : 27.06.2001

(72)Inventor : KASIRAJ PRAKASH
NEIL LESLIE ROBERTSON
WICKRAMASINGHE
HEMANTHA KUMAR

(30)Priority

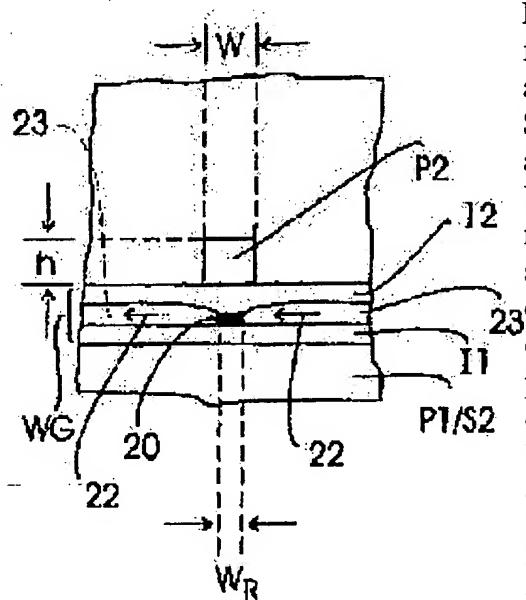
Priority number : 2000 608848 Priority date : 29.06.2000 Priority country : US

(54) HEAT SUPPORT TYPE HEAD HAVING RESISTANCE HEATER IN WRITING GAP AND DISK DRIVE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a writing head for a heat support type magnetic recording system attaining a narrow track width.

SOLUTION: A thin film inductive writing head includes an electric resistance heater 20 disposed in a writing gap WG between the extreme tips of the writing head. A resistance heater is inserted between first and second spacer layers I1 and I2 disposed between the extreme tips of the writing head. In CIP head, spacer layers are made of insulating materials, an electric lead is formed as a part of a film between the spacer layers, and brought into contact with each side of the resistance heater. The width WR of the resistance heater is smaller than the width W of the extreme tip. Thus, writing is carried out by the extreme tip of the writing head only in the area of a magnetic layer on the disk heated by the resistance heater. Thus, the width of a data track on the disk is defined not by the shape of the extreme tip of the writing



head but by the width of the resistance heater.

LEGAL STATUS

[Date of request for examination] 27.06.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office